

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 713 AND W.B. MD 100 RAMPS IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN ADDITIONAL LEFT TURN LANE ON THE WESTBOUND MD 100 OFF RAMP. MD 713 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH A LAG EXCLUSIVE LEFT TURN PHASE FOR N.B. MD 713. THIS OPERATION WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A NEMA "6" BASE MOUNTED CABINET WILL BE USED.

SPECIAL NOTE:

INTERCONNECT CABLE EXISTS BETWEEN THE INTERSECTION OF MD 713 & MD 176 AND THE INTERSECTION OF MD 713 & THE MD 100 EASTBOUND RAMPS. THE CONTRACTOR SHALL REUSE THIS CABLE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
2 CY	TEST PIT EXCAVATION
24 EA	12 INCH LED SIGNAL HEAD SECTION
8 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	27 FT. MAST ARM POLE & 50 FT. MAST ARM
1 EA	27 FT. TWIN MAST ARM POLE & 50 FT. MAST ARMS
2 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
8 EA	ELECTRICAL HANDHOLE
95 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
176 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
265 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
70 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
5 EA	VIDEO DETECTION CAMERA AND CABLE
8 EA	NON-INVASIVE MICRO-LOOP PROBE SET WITH LEAD-IN CABLE
290 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) TRAY CABLE
80 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
760 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
200 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
2320 LF	DISCONNECT, PULL BACK AND REROUTE CABLE
2 EA	3/4 IN. X 10 FT. GROUND ROD
1 EA	D3-2 (72" X 16") SIGN - MAST ARM MOUNT
4 EA	R3-5L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-6 (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-1 (24" X 24") SIGN - MAST ARM MOUNT
7 EA	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
40 LF	24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
350 LF	10 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
1920 LF	5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8 EA	WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002
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MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005

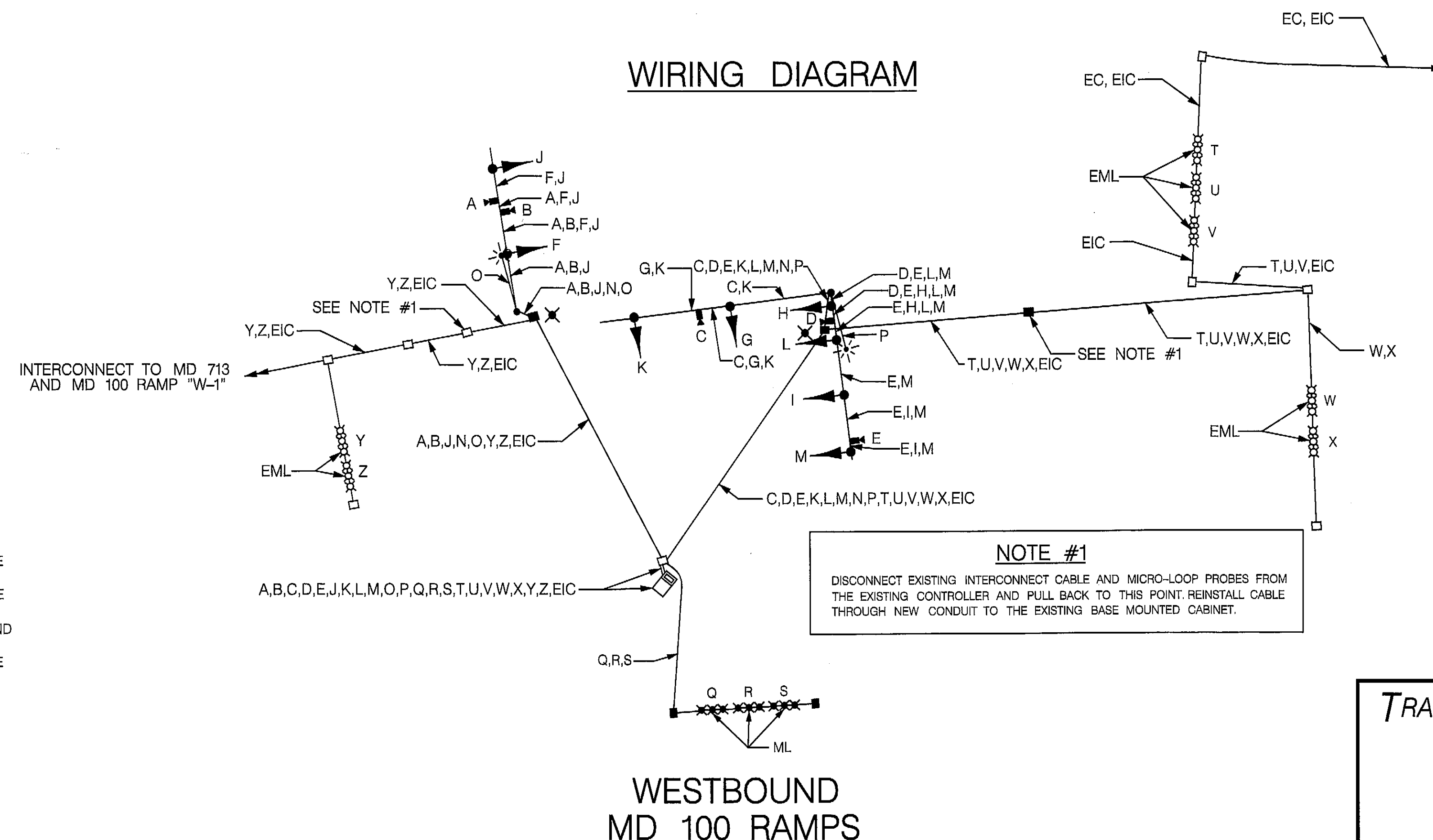
CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7830

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7831

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

WIRING DIAGRAM



WIRING KEY

A-E	VIDEO DETECTION CABLE
F-I	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J-M	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
N	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
O,P	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
Q-Z	MICRO-LOOP PROBE CABLE
EC	EXISTING CABLE
ML	MICRO-LOOP PROBE
EML	EXISTING MICRO-LOOP PROBE
X	GROUND ROD

NOTE #1

DISCONNECT EXISTING INTERCONNECT CABLE AND MICRO-LOOP PROBES FROM THE EXISTING CONTROLLER AND PULL BACK TO THIS POINT. REINSTALL CABLE THROUGH NEW CONDUIT TO THE EXISTING BASE MOUNTED CABINET.

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

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Monday, May 17, 2010 AT 03:07 PM

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 713 (ARUNDEL MILLS BLVD.) AND
MD 100 RAMPS
HANOVER, MARYLAND**

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	2-1-10	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	J.K. SCHMID	LOGMILE	02071902.90		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K-305		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS 3228 D GI	SHEET NO.	3	OF	4